

July 31st, 2001

Special 510(k) Summary

Echo-View 5.x Easy-View 2.x

Omni-View 2.x

Cardio-View 1.x LV Analysis 1.x Surgical View 1.x OCT 1 7 2002

Name and Address

TomTec Imaging Systems GmbH Edisonstrasse 6 D-85716 Unterschleissheim

Contact Person

Florian Eisenberger

Director, Regulatory Affairs & Quality Assurance

Phone

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Common, Classification & Proprietary Names

Common Name:

Digital Ultrasound Image Analysis System

Classification Name:

Ultrasonic Pulsed Echo Imaging System

Proprietary Name(s):

Echo-View 5.x

Easy-View 2.x Omni-View 2.x Cardio-View 1.x LV Analysis 1.x Surgical View 1.x

Predicate Device

TomTec Echo-View K993398



Device Description

The Review Software products

- Echo-View 5.x
- Easy-View 2.x
- Omni-View 2.x
- Cardio-View 1.x
- LV Analysis 1.x
- Surgical View 1.x

are software modules for high performance computer systems based on Microsoft Windows 2000/XP™ operating system standards. These Review Software products are proprietary software for the analysis, storage, retrieval and reconstruction of digitized ultrasound B-mode images and Color Doppler images. The data can be acquired by a TomTec acquisition station or by a 3D capable ultrasound system. The result of acquired images allows a 3-dimensional volume to be reconstructed by Echo-View. The digital 3D / 4D data set can be used for 2D and 3D measurements.

Intended Use

The Review Software products

- Echo-View 5.x
- Easy-View 2.x
- Omni-View 2.x
- Cardio-View 1.x
- LV Analysis 1.x
- Surgical View 1.x

are intended to retrieve, analyze and store digital ultrasound images and Color Doppler images for computerized 3-dimensional and 4-dimensional (dynamic 3D) image processing.

Echo-View 5.x, Easy-View 2.x, Omni-View 2.x, Cardio-View 1.x, LV Analysis 1.x and Surgical View 1.x can import certain digital 2D or 3D image file formats for 3D tomographic reconstructions and surface rendering. It is intended as a general purpose digital 3D ultrasound image processing tool for cardiology, radiology, neurology, gastroenterology, urology, surgery, obstetrics and gynecology.

Technological Characteristics Comparison

Echo-View 5.x, Easy-View 2.x, Omni-View 2.x, Cardio-View 1.x, LV Analysis 1.x and Surgical View 1.x are modified version and follow-up products of the filed Echo-View / Easy-View system, which has been transferred to Windows 2000/XP ™ operating system standards. The graphic user interface has been improved for faster and easier application.

While Echo-View includes the full functionality the products Cardio-View, LV Analysis, Surgical View, Easy-View and Omni-View are subsets of the Echo-



View Software where the functionality is limited for easier software handling with respect to the software application.

Test Discussion

Testing was performed according to internal company procedures. Software testing and validation were done at the module and system level according to written test protocols established before testing was conducted. Test results were reviewed by designated technical professionals before software proceeded to release.

Test Conclusions

Test results support the conclusion that actual device performance satisfies the design intent. Actual device performance as tested internally conforms to the system performance specifications.

July 31st, 2002 Florian Eisenberger



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

OCT 17 2002

Mr. Florian Eisenberger Manager Regulatory Affairs TomTec Imaging System Edisonstrasse 6 D-85716 Unterschleissheim Germany Re: K022824

Trade/Device Name: TomTec Echo-View 5.x, Easy-View 2.x, Omni-View 2.x, Cardio-View 1.x, LV Analysis 1.x, and Surgical View 1.x

Regulation Number: 21 CFR 892.2050 Regulation Name: Picture archiving and

communications system

Regulation Number: 21 CFR 892.1560

Regulation Name: Ultrasonic pulsed echo imaging system

Regulatory Class: II

Product Code: 90 LLZ and IYO Dated: September 16, 2002 Received: September 24, 2002

Dear Mr. Eisenberger:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

8xx.1xxx	(301) 594-4591
876.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4616
884.2xxx, 3xxx, 4xxx, 5xxx, 6xxx	(301) 594-4616
892.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4654
Other	(301) 594-4692

Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html.

Sincerely yours,

Vancy Chrogdon
Nancy C. Brogdon

Director, Division of Reproductive, Abdominal, and Radiological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

510(k) Numb	er (if known):	<u> </u>
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Device Name: TomTec Echo-View 5.x, Easy-View 2.x, Omni-View 2,x Cardio-View 1.x, LV Analysis 1.x, Surgical-View 1.x

Indications For Use

The products:

- Echo-View 5.x
- Easy-View 2.x
- Omni View 2.x
- Cardio-View 1.x
- LV Analysis 1.x
- Surgical View 1.x

are intended to retrieve, analyze and store digital ultrasound images and Color Doppler images for computerized 3-dimensional and 4-dimensional (dynamic 3D) image processing.

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(PLEASE DO NOT WRITE BELOW LINE LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

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(Division Sign-Off) Division of Reproductive, Abdominal, and Radiological Devices 510(k) Number	
OR	Over-The-Counter Use

Prescription Use $\sqrt{\text{(Per 21 CFR 801.109)}}$